

AMENDMENTS TO THE SPECIFICATION:

Please delete the centered and underlined title "DESCRIPTION" at page 1, line 1.

Please amend the title on page 1, line 2, as follows:

HALL SENSOR ~~AND METHOD FOR OPERATING IT~~

Please add the following centered heading on page 1 between lines 2 and 3:

TECHNICAL FIELD

Please add the following centered heading on page 2, between lines 4 and 5:

BACKGROUND

Please add the following centered heading on page 2, between lines 9 and 10:

SUMMARY

Please add the following centered heading on page 3, line 16:

DESCRIPTION OF THE DRAWINGS

Please amend the paragraph on page 3, lines 18 and 19, as follows:

Figure 2 shows a cross section, along the line II-II in Figure 1 ~~2~~, of a Hall sensor  
for a first and second embodiment;

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Serial No. : Not Yet Assigned  
Filed : Herewith  
Page : 3

Attorney's Docket No.: 14603-011US1  
Client's Ref.: P2002,0723USN

Please add the following centered heading on page 4, line 3:

#### DETAILED DESCRIPTION

Please replace the Abstract on page 10 with the following new Abstract:

A Hall sensor on a semiconductor substrate includes a Hall plate in the semiconductor substrate, where the Hall plate includes a first zone having a first conduction type. The semiconductor substrate also include a second zone having a second conduction type. A space-charge zone in the semiconductor substrate separates the first zone and the second zone, first contacts supply a control current to the first zone, and second contacts supply a compensation current to the second zone.

Please delete the phrase "Figure 1" on page 10, line 14.